

KNOWLEDGE ORGANISER Year 5 Summer Half Term 2



Curriculum Intent Statement -

At St. Augustine's Catholic Primary School, we are passionate about children's learning. The Cognitive Load research theory and Rosenshine's Principles of Instruction highlights that children learn through remembering and recalling and this theory is embedded this within the knowledge of our curriculum.

'Learning is Remembering and Recalling...'

Our curriculum is planned and sequenced around the specific vision of the National Curriculum, our Curriculum Drivers, the Laudato Si and the Gospel Values. This is based upon our School Catholic Mission that we have a moral purpose for our pupils to flourish in a safe, happy and stimulating environment, and leave us with the knowledge and skills, personal qualities and aspirations, to make the world a better place, inspired by the Gospel. We believe that this core belief underpins everything we do here at St. Augustine's.

St. Augustine's curriculum will provide inspiring and relevant learning opportunities for our children to develop the knowledge and skills that can be fluently applied across all subject areas. It will ensure that all children's individual needs and experiences are developed through local, national and global contexts.

In order for children to relate to their learning, topic areas will be carefully planned and supported through external visitors talking about their experiences, or class trips to supplement the children's learning.

Curriculum Development - Intent

LauDato Si, National Curriculum and Gospel Values

















Using our Secrets to Success...



















Rosenshine's Principles of Instruction

English

Reading Writing **Phonics** Spelling Punctuation Grammar

Maths

Arithmetic Fluency Reasoning **Problem Solving**

RE

Knowledge & Understanding **Engagement &** Response **Analysis & Evaluation**

Parents in Partnership and Knowledge Organisers

The Culture Team

History Geography French (MFL)

The Arts and **Technology** Team

Design Technology Art Music Computing

The Healthy **Hearts and** Minds Team PF

Science PSHE / RSHE

Our Laudato Si key question this half term...

How can we act as fair and just custodians of our world?

Our Focus Gospel Value this half term is...



Justice

"He has told you, O man, what is good; and what does the Lord require of you but to do **justice**, and to love kindness, and to walk humbly with your God?" (Micah 6:8)

School Mission Statement

Lead us Lord,
To act justly,
To love tenderly,
And to walk humbly.





Amen



This half term Year 5 have lots of exciting things planned. We will be finding out about the country of Australia. We will find out about its history, its geography and the people that live there. We will focus upon the settlement of the country by Europeans and how this affected the indigenous peoples who already lived there Questions we will ask will include:

- Who were the original inhabitants of Australia?
- When did Europeans come to Australia and what impact did they have?
- How is climate change affecting the whole continent?

How can I help my child with this topic:

Using an atlas or online version, locate the United Kingdom and Australia. Identify famous mountain ranges, rivers and other Australian features of physical geography. Research the indigenous peoples of Australia, their history and culture.

The next few slides will show you some of the things that we will be covering within specific subjects. Each subject will look at a specific set of skills that will allow children to meet the National Curriculum objectives within Year 5.

AUSTRALIA

Australia is a unique continent because of several reasons. The continent of Australia has only one country, which is Australia itself! Since Australia is surrounded by water from all sides, it is also known as the island continent. It lies between the Indian and Pacific oceans, and is approximately 3,200 km from north to south and 4,000 km from east to west. Area wise, it is the sixth largest country in the world. It is the flattest and the driest of continents, after Antarctica. It is also referred to as the 'land down under' because it lies below the equator.



Australia is home to many unique animals

PLATYPUS

the mammal that lays eggs.

KANGAROO

The only animal that carries its young in a pouch.

EMU

A unique flightless



The Australian landscape is so vast and varied; there are deserts, snow clad fields, flat lands, plateaus, rainforests and more. The first occupants of this continent were the aboriginal people who arrived in Australia about 60,000 years ago.

The credit for the European discovery of Australia goes to Captain James Cook in 1770.



- Australia is the largest island and the smallest continent in the world. It is two times larger than India.
- Geologists believe Australia to be the world's oldest continent.
- The name Australia is derived from a Latin word 'Australis'
- that means 'Southern'. It is thus named because it lies entirely to the south of the equator.
- Australia's capital city is Canberra.
- Officially, Australia is also known as 'The Commonwealth of Australia'.
- Two-thirds of Australia is made up of flat desert area.
- The population of Australia is more than 19 million.
- Australia is regarded as the world's thirteenth largest economy.



- Sydney is the biggest city and most populous city in Australia.
- The highest point in the continent is Mount Kosciusko.
- The 2000 km long Great Barrier Reef located in Australia is the world's largest coral reef.

English Knowledge - KEY VOCABULARY

Grammar Key Vocabulary – Sentence Level

Progressive tenses – showing a continuous action e.g. is clapping, was jumping (formed by adding –ing to the verb).

Present perfect tense – used for actions that started in the past and continue into the present e.g. I have lived in Weymouth for 10 years (formed using has/have + past tense verb).

Adverbial phrases – describe how, when, where or why the verb happens e.g. in the garden, before school, at the park (adverbials at the start of a sentence <u>must</u> be followed by a comma).

Subject – the noun that is doing the verb e.g. *The* <u>dog</u> chased the ball. **Object** – the noun that is having the verb done to it e.g. *The* dog chased the <u>ball</u>.

Active voice – the subject comes before the verb in a sentence e.g. *The <u>dog</u> chased the ball.*

Passive voice – the object comes before the verb in a sentence e.g. *The* <u>ball</u> was chased by the dog.

Grammar Key Vocabulary – Word Level

Preposition – describes when or where something is in relation to something else (after, before, under, inside).

Determiner – introduces a noun:

- Articles (a, an, the)
- Demonstratives (this, that, these, those)
- Quantifiers (one, two, some, many, multiple)
- Possessive (his, her, their)

Subordinating conjunction – a word that connects an independent clause to a dependent clause (because, although, however).

Co-ordinating conjunction – a word that joins two elements of equal importance (FANBOYS – for, and, nor, but, or, yet, so).

Synonyms – a word that means the same as another e.g. old and ancient.

Antonyms - a word that means the opposition – e.g. old and young.

Punctuation Key Vocabulary

Parenthesis (),,-- additional information or an aside within a sentence. Punctuated with brackets (for short or formal information), dashes – for informal chatty – and commas for clauses.

Semi colon; used to join independent clauses (clauses that make sense on their own) in the place of a conjunction.

Colon: used to introduce a list or to join two independent clauses when the second clause relates to the first.

Hyphens to avoid ambiguity used to avoid confusion between words which would otherwise have the same spelling but a different meaning.

English Knowledge & Skills

WRITING - Short stories & Balanced arguments

AMPS descriptive techniques to describe setting, atmosphere and characters: **Alliteration** – Most of the **initial letter sounds** of the words in each line are the

same.

Metaphor – Saying an object **is** something.

Personification – A human quality is given to an object. Simile - Comparison is used by using 'as a' or 'like a'.

Plot – developing problems and solutions within a story.

Dialogue – using the speech of characters to advance action in a story.

READING Key vocabulary

Word meaning - Explaining the meaning of words in context and explaining how word choice enhances meaning.

Retrieval - Finding details and information from a text.

Prediction - Saying what will happen next or as a result of something.

Comprehension – understanding the text and how content is related to the meaning as a whole.

from the text. **Deduction -** Using evidence in a text to support an idea.

Summary – summarising main ideas from across paragraphs.

Don't forget the Vocabulary Challenge!

Inference - reaching a conclusion which you can explain and justify with evidence

SPELLING

- Words with silent letters
- Words ending in ment
- Words ending in ment
 Modal verbs
- Adverbs of possibility and frequency
- Statutory Spelling Challenge Words
- Homophones words that sound the same but mean different

HOW TO HELP – Writing

- Discuss descriptive techniques when reading.Discuss how authors develop the plot in their stories.
- Look at dialogue and how it moves a story on.
- Encourage your child to write as much as possible for as many
- different purposes as you can.

HOW TO HELP - Grammar

- Speak in grammatically accurate sentences.
- Spot gramma being taught at school when reading.Work together on your child's IXL homework.

HOW TO HELP - Reading

- Dood with your shild (late
- Read with your child (lots)
- Discuss vocabulary and develop understanding of new wordsVisit local libraries
- Read comics/magazines/newspapers
- Let your child see you read
- Make reading enjoyable- not a battle
- Let children read what interests them

Spelling Y5 & 6 Curriculum words

accommodate existence muscle rhythm conscience explanation sacrifice accompany conscious necessary according familiar neighbour secretary controversy shoulder achieve convenience foreign nuisance signature aggressive correspond fortu оссири frequently amateur criticise sincere occur opportunitu ancient curiosity government sincerelu definite parliament soldier guarantee apparent appreciate desperate harass persuade stomach attached determined hindrance sufficient physical available develop identity prejudice suggest immediate privilege symbol average dictionary awkward disastrous immediately profession system embarrass individual bargain programme temperature bruise environment interfere pronunciation thorough category equip interrupt twelfth queue language cemetery equipped recognise variety committee equipment leisure recommend vegetable communicate especially lightning relevant vehicle marvellous yacht community exaggerate restaurant excellent mischievous competition rhyme

Help your child to practice spelling and using these words

Look for them in books.

Can they write them in their homework?

Maths Knowledge – KEY VOCABULARY

Number and the 4 Operations

Divisor – the number you are dividing by **Quotient** – the answer to a division calculation

- the answer to a division calculation

Product – the answer to a multiplication question **Factors** – numbers that go into a given number (come in pairs) e.g. factors of 12 are:

1 and 12 2 and 6 3 and 4

Multiples - in the times table of - e.g. multiples of 12 are 12, 24, 36 etc.

Lowest Common Multiple – the lowest multiple of 2 or more numbers that are the same.

Highest Common Factor – the largest factor that is a factor of two or more other numbers

Integer – a whole number

Prime numbers – numbers that only have 2 factors, 1 and itself

Decimal – part of a whole where 1 is the whole

Percent – part of a whole where 100% represents the whole

Fractions

Equivalence – fractions that have the same value/are the same size

Numerator – the top number of a fraction (how many parts selected from the whole)

Denominator – the bottom number of a fraction (how many parts the whole is split into) **Simplify** – giving a fraction in the simplest form using the smallest possible numerator and

denominator (e.g. 50/100 = ½) **Common denominator** – finding the lowest common multiple of two or more denominators to allow you to add or subtract them

Mixed number – a whole (integer) and a fraction e.g. 1 %

Improper fraction – where the numerator is larger than the denominator e.g. 3/2. Improper fractions can be converted into mixed numbers e.g. $3/2 = 1 \frac{1}{2}$

HOW TO HELP

Mental arithmetic games – e.g. Countdown.

Regularly revisit times tables facts up to 12 x 12.

Use maths in daily life – cooking, measures, shopping etc.

Be positive about maths at home!

Embrace struggle! Teach your child that it's good to get stuck! This is how we learn best. Allow time for resilience building.

Fluency, Reasoning and Problem Solving Key Vocabulary -

Fluency - Using number and calculation skills accurately and efficiently

Reasoning - Following a line of enquiry, justifying and proving their answers

Problem Solving - Solving real life and logical problems using mathematical understanding

Maths – Geometry & Measures

This half term we are learning to:

Geometry

Geometry: Properties of shape

- -Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.
- -Use the properties of rectangles to deduce related facts and find missing lengths and angles.
- Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.
- -Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.
- -Use the properties of rectangles to deduce related facts and find missing lengths and angles.
- Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.
- Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.
- Draw given angles, and measure them in degrees.
- Identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and ½ a turn (total 180°) other multiples of 90°

Geometry: position & direction

-Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.

Measure: converting units

- Convert between different units of metric measure [for example, km and m; cm and m; cm and mm; g and kg; I and ml]
- Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.
- Solve problems involving converting between units of time.

Measure: Volume

- Estimate volume (for example using 1cm2 blocks to build cuboids including cubes) and capacity (for example using water)
- Use all four operations to solve problems involving measures.

Maths – Shape

operties of Shape	:	Kr	rowledge Organise	
Key Vocabulary	Triangles		Quadrilaterals	
angle	Triangles have 3 sides and 3 vertices. The		A quadrilateral is a polygon with four sides.	
right angle	total of the angles in	a triangle is 180°.	p 	-
acute	An An	ı equilateral		
obtuse	tri	iangle is a regular	T T	† †
horizontal		lygon. It has sides		
vertical		of equal length and each angle is 60°.	A square has four sides of equal	A rectangle has two pairs o
diagonal	A A ea	ch angle is 60°.	length and four right angles	parallel, equal sides and fou
parallel			(90°). A square is also a rectangle,	right angles. A rectangle i
perpendicular	/\	n isosceles triangle	a rhombus and a parallelogram.	also a parallelogram.
two-dimensional	/ \	has two sides of equal		
polygon		ngth and two angles equal size.	7	/ × ×
line of symmetry		equal size.	7 7	
reflection				
mirror line	A I	A right-angled triangle always has	A parallelogram has two pairs of	A rhombus has four sides
isosceles	tri		parallel, equal sides and opposite	equal length and opposite equ
equilateral	on	ie 90° angle.	equal angles.	angles. A rhombus is also
scalene	+ \ \ It	It can be isosceles or scalene.		parallelogram.
quadrilateral	sco			*
rhombus	'			
parallelogram		A scalene triangle has no equal sides or angles.		
trapezium				
			A trapezium only has one pair of opposite parallel sides.	A kite has two pairs of adjaces equal sides and one pair opposite equal angles.

Maths – Shape

Properties of Shape

Knowledge Organiser

Angles

Lines of Symmetry

An angle is created when two straight lines meet at a point or intersect.

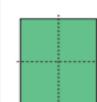
Lines of symmetry may be horizontal, vertical or diagonal. Some 2D shapes will have no lines of symmetry and some 2D shapes will have multiple lines of symmetry.

Right angle

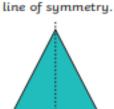




A square has four lines of symmetry.



An equilateral triangle has three lines of symmetry.



An isosceles

triangle has one

A rhombus has two lines of symmetry.



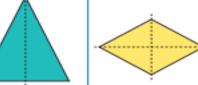


A rectangle has

two lines of

symmetry.





Acute angle

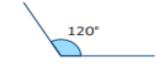
Any angle measuring more than 0 degrees and less than 90 degrees is acute.

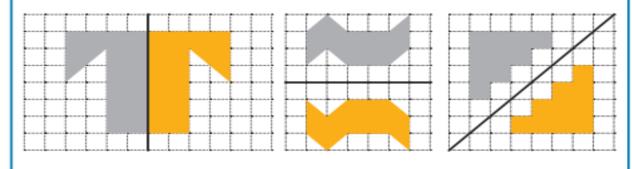


Symmetric Figures

Patterns and shapes can be reflected in a mirror line. Mirror lines can be vertical, horizontal or diagonal.

Obtuse angle Any angle measuring more than 90 degrees but less than 180 degrees is obtuse.





Maths – Measures



Weight, Length and Capacity Place Mat

Length

- 1 centimetre (cm) = 10 millimetres (mm)
- 1 metre (m) = 100 centimetres (cm)
 - 1 kilometre (km) = 1000 metres (m)



Weight

- 1 gram (g) = 1000milligrams (mg)
- 0.1 kilograms (kg) = 100 grams (g)
 - 1 kilogram (kg) = 1000 grams (g)
 - 1 tonne = 1000 kilograms (kg)



Capacity

- 1 litre (l) = 1000 millilitres (ml)
 - 1 litre (l) = 100 centilitres (cl)
- 1 centilitre (cl) = 10 millilitres (ml)
- 0.1 litres (l) = 100 millilitres (ml)



Imperial Units



- 1 pint = 568ml
- 1 inch = 2.5 cm or 25 mm
- 1 foot = 12 inches or 30 cm
 - 1 mile = 1.6 km
 - 1 ounce = 25g
 - 1 pound (lb) = 500g



Religious Education



RECONCILIATION — INTER-RELATING Come and See for yourself

Networks of friendships and relationships enable human beings to live together. When a child's power to reach out, trust and make friends is diminished, they may suffer the effects for a lifetime. Both children and adults have to discover their ability to reach out and repair what has been damaged.

If human beings are to live together in relationships, there is always need for reconciliation.

Christians believe that, in Jesus Christ, the world has been reconciled to God. Through and in Christ, every human being is offered the power to reach out in forgiveness and peace, to receive and to offer reconciliation.

- No. 24 -

"We were able to work out our

differences, apologize to each other, and

finally move forward in our friendship.

Not only was it an answer to prayer,

but truly 'God at work' in restoring

and strengthening a bond."





Science: Materials Animals including Humans

We will be learning this half term how to describe the changes as humans develop to old age.







Children will be learning to:

Use 8 compass points; Begin to use 4 figure co-ordinates to locate features on a map. Begin to draw a variety of thematic maps based on their own data. Compare maps with aerial photographs. Select a map for a specific purpose. (E.g. Pick atlas to find Taiwan, OS map to find local village.)

Begin to use atlases to find out about other features of places. (e.g. find wettest part of the world) Measure straight line distance on a plan. Find/recognise places on maps of different scales Use index and contents page within atlases.



Computer Science – We are game developers

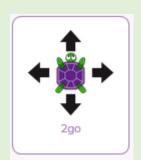
Children plan their own simple computer game. They design characters and backgrounds, and create a working prototype, which they develop further based on feedback they receive. Rising Stars – 'We Are Game Developers'

•Create original artwork and sound for a game •Design and create a computer program for a computer game, which uses sequence, selection, repetition and variables •Detect and correct errors in their computer game •Use iterative development techniques (making and testing a series of small changes) to improve their game













Art/DT

Year 5 Skills

DT- Graphics / Resistant materials

Children will be learning:

to generate ideas through brainstorming and identify a purpose for their product to draw up a specification for their design

to develop a clear idea of what has to be done, planning how to use materials, equipment and processes

to select appropriate materials, tools and techniques

to use skills in using different tools and equipment safely and accurately

to evaluate a product against the original design specification

to evaluate it personally and seek evaluation from others

Music

Composition

Identify different starting points or composing music. Explore, select combine and exploit a range of different sounds to compose a soundscape. Write lyrics to a known song. Compose a short song to own lyrics based on everyday phrases. Compose music individually or in pairs using a range of stimuli and developing their musical ideas into a completed composition.

Performance skills

Present performances effectively with awareness of audience, venue and occasion.

Key Vocabulary

- Composition
- performance
- Soundscape
- Audience



RHE

PE

Year 5 this term will be learning About the following topics in our weekly sessions:



Impacted Lifestyles

Making Good Choices

Giving Assistance

The Trinity

Catholic Social Teaching

Reaching Out

Athletics Children will learn to:

Explain how confidence can affect performance.

Draw on previous knowledge of tactics, skills and strategies.

Develop interest in participating in sports activities and competitions.

Identify different levels of performance and use subject specific vocabulary.

Athletics skills/objectives

develop the consistency of their actions in a number of events

increase the number of techniques they use choose appropriate techniques for specific events

understand the basic principles of warming up understand why exercise is good for fitness, health and wellbeing

evaluate their own and others' work and suggest ways to improve it

TopiclGeography Can you use the points of a compass to describe your Can you locate Australia on position? Can you describe some of a map? the physical features of Australia?

Computing

How can I detect an error in my sequence of code?

How can I improve my computer programme?

Foundation Subject IMPACT QUESTIONS



Music

How does the stimuli
Affect my choice of lyrics?

RHE

How can we help others safely and responsibly?

How can we ensure we make good choices in our lives?

PF

How can you improve your performance?

How does your your performance?

Art

How do I select the appropriate tools and materials for my task?

What skills do I need to use?